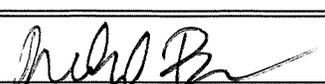
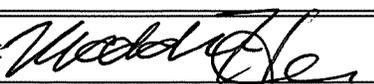


GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	30	Dates:	7/25/2021-7/31/2021	Counted On	7/26/2021
INSTRUMENT USED: Quantasart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.	uCi/swipe = CPM:C * Control Factor		uCi/cm ² = CPM:C * Control Factor / 100		
Limit of quantification (LOQ)=		8.79E-08 uCi/cm ²		QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK	
Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm ²	NOTE:
1.	BACKGROUND 1	29	*****	*****	
2.	BACKGROUND 2	30	*****	*****	
3.	BACKGROUND 3	29	*****	*****	
4.	BACKGROUND 4	26	*****	*****	
5.	BACKGROUND 5	29	*****	*****	
6.	BACKGROUND 6	25	*****	*****	
7.	B021 ELEVATOR ENTRANCE	29	M	M	
8.	B021 FENCED GATE	27	M	M	
9.	B021 RAM SAFE	28	M	M	
10.	B021 EAST FLOOR	30	M	M	
11.	B021 NORTH BENCH TOP	24	M	M	
12.	B021 WEST LAB FLOOR	26	M	M	
13.	B021 WORK PLATFORM	28	M	M	
14.	B021 CALORIMETER	30	M	M	
15.	B021 COMPUTERS	25	M	M	
16.	B021 DSC/TGA	28	M	M	
17.	B021 SOUTH BENCH TOP	26	M	M	
18.	121 DOORWAY	24	M	M	
19.	121 GLOVE BOX- FLOOR	23	M	M	
20.	121 GLOVE BOX	27	M	M	
21.	121 WEST BENCH TOP	28	M	M	
22.	121 CENTER OF LAB	28	M	M	
23.	122 EAST BENCH TOP	26	M	M	
³⁶ CI SOURCE 09/14/1971		50099		*****	*****
		101.01%	CALIBRATION CHECK OK?		YES
Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contamination limit of 1 x 10 ⁻⁶ uCi/cm ² .					
SURVEY PREPARED BY: R. Bergman			REVIEWED BY: M. Heine		
SIGN/DATE:  7/26/21			SIGN/DATE:  7/26/21		

Protocol# 1 - Reactor Weekly.lsa

User: CSE

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210726_0936

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210726_0936\20210726_0936.results

Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On

Luminescence Correction: Off

Colored Samples: n/a

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

P#	DATE	TIME	S#	Count	Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	7/26/2021	9:37:47 AM	1	5.00	25	4	29	193.40		
1	7/26/2021	9:44:12 AM	2	5.00	25	5	30	240.32		
1	7/26/2021	9:50:28 AM	3	5.00	23	6	29	264.01		
1	7/26/2021	9:56:54 AM	4	5.00	22	4	26	241.38		
1	7/26/2021	10:03:19 AM	5	5.00	25	4	29	230.30		
1	7/26/2021	10:09:44 AM	6	5.00	20	5	25	236.10		
1	7/26/2021	10:16:07 AM	7	5.00	24	5	29	295.44		
1	7/26/2021	10:22:31 AM	8	5.00	22	6	27	303.34		
1	7/26/2021	10:28:47 AM	9	5.00	22	6	28	292.81		
1	7/26/2021	10:35:08 AM	10	5.00	26	3	30	165.68		
1	7/26/2021	10:49:45 AM	11	5.00	21	3	24	144.43		
1	7/26/2021	11:06:05 AM	12	5.00	22	4	26	214.13		

Protocol# 1 - Reactor Weekly.lsa

User: CSE

1	7/26/2021	11:12:36 AM	13	5.00	23	6	28	298.81
1	7/26/2021	11:28:45 AM	14	5.00	26	4	30	183.20
1	7/26/2021	11:35:03 AM	15	5.00	20	4	25	251.40
1	7/26/2021	11:41:27 AM	16	5.00	22	6	28	286.21
1	7/26/2021	11:57:05 AM	17	5.00	22	4	26	199.13
1	7/26/2021	12:03:32 PM	18	5.00	20	4	24	187.62
1	7/26/2021	12:09:52 PM	19	5.00	19	4	23	220.71
1	7/26/2021	12:16:13 PM	20	5.00	21	6	27	273.09
1	7/26/2021	12:22:37 PM	21	5.00	22	6	28	239.12
1	7/26/2021	12:28:57 PM	22	5.00	22	5	28	326.21
1	7/26/2021	12:45:23 PM	23	5.00	21	4	26	198.53
1	7/26/2021	12:51:04 PM	24	5.00	14409	35689	50099	1017.08

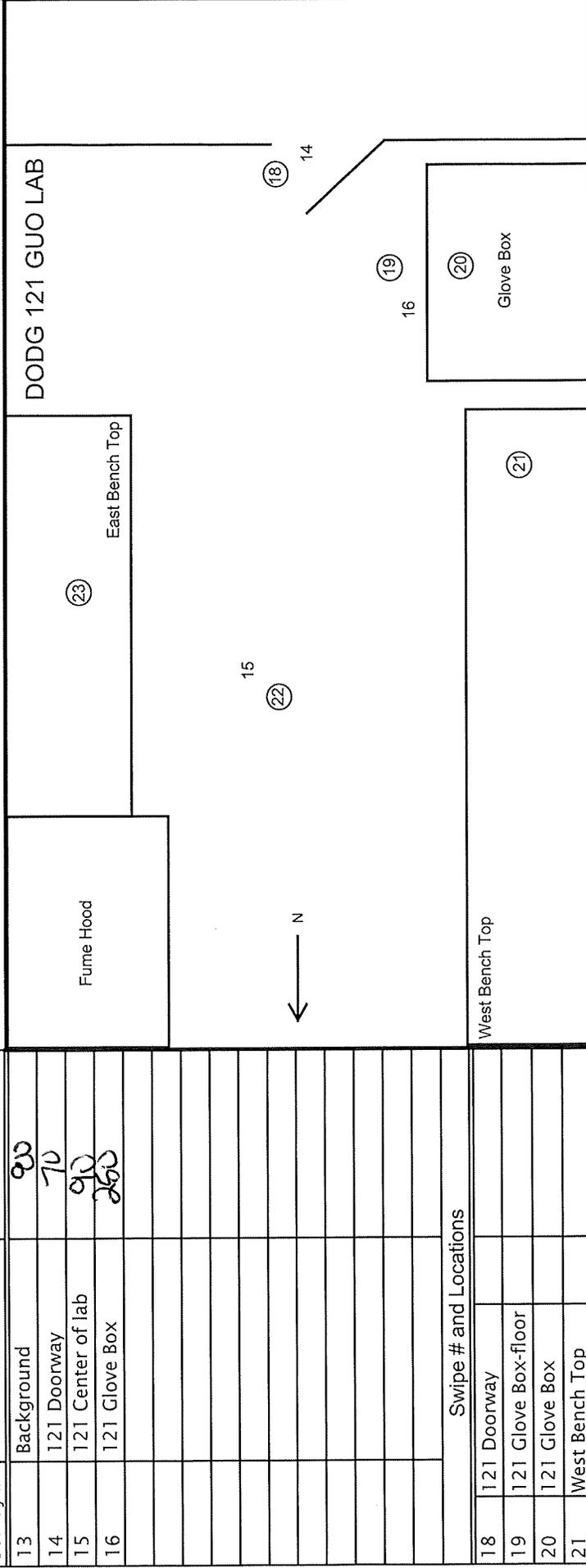
LABORATORY SURVEY

Radiation Safety Office
 Washington State University
 Pullman, WA 99164-1302
 (509) 335 8916

Building Dodgen Research Facility	Room 121- GUO	Lab Class D	Survey Instrument GM Detector Model 3	Serial No. 58680	Radiation Detected Gamma
Authorized User Xiaofeng Guo	Date 5/20/21	Time 0911	Swipe Instrument Quantasmat	Serial No. 073396	Radiation Detected Beta/Gamma
Reactor Status (Check One) <input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/>					

LSC Printout Date 7/20/21

NOTE SWIPE AND SURVEY LOCATIONS ON MAP



Survey #	Location	CPM	Notes
13	Background	90	
14	121 Doorway	70	
15	121 Center of lab	90	
16	121 Glove Box	260	
18	121 Doorway		
19	121 Glove Box-floor		
20	121 Glove Box		
21	West Bench Top		
22	121 Center of lab		
23	East Bench Top		
Surveyed By: RB			Date: 7/20/21
Swiped By: RB			Date: 7/20/21
Reviewed By: <i>[Signature]</i>			Date: 7/20/21

Circled numbers on map indicate a swipe area of 100 square cm. Numbers not circled indicate a survey location.